

# Machinery Vibration Quick Look Report (T04)

<b>Company:</b>	ABC	<b>Class:</b>	ABS
<b>Ship:</b>	M/T SHIP 3	<b>Last Inspected:</b>	09 November 2014
<b>Location:</b>	PORT B	<b>Status:</b>	Anchorage
<b>Machinery Load:</b>	Normal Operation	<b>Vessel Condition</b>	
		<i>Sea State:-</i>	<i>Shaft RPM:-</i>
		<i>Draft Fwd:-</i>	<i>Draft Aft:-</i>
<b>Date:</b>	13/11/2014		

Machinery List	Findings	Recommendations	Rating
No 2 M/E Jacket Cooling	<b>Unbalance</b>	Inspect pump impeller. Check/ confirm rotors trueness. Motor balancing job should be examined based on results.	<b>UNACCEPTABLE</b>
No 2 M/E Aux Blower	Bearing <b>6212ZZC3</b> looseness in housing. Bearing <b>6212ZZC3</b> fault	Schedule bearing <b>6212ZZC3</b> condition and positioning inspection (check for cocked shaft bearing issue). Schedule bearing housing condition inspection.	<b>MARGINAL</b>
No 1 Fire & GS Pump	Pump <b>Cavitation</b>	Adjust discharge valve position until no gravel sound noise exists. Pump impeller is recommended to be inspected in case no improvement can be succeeded with valve adjustment.	<b>MARGINAL</b>
GS & Bilge Pump	Pump <b>Cavitation</b>	Adjust discharge valve position until no gravel sound noise exists. Pump impeller is recommended to be	<b>MARGINAL</b>

## Notes:

**Complete Machinery Condition Report which will be submitted within the following 3 days.**

**Unacceptable rating machine** require actions as soon as possible. Machines rated unacceptable are normally considered to have a severe problem. Generally the machine should not operate until inspection or remedy action performed.

**Marginal rating machine** require actions to be schedule. Machines rated marginal are normally considered unsatisfactory for long-term continuous operation. Generally, the machine may be operated for a limited period in this condition until a suitable opportunity arises for remedial action.

Broadband (rms vibration energy power) and narrowband (spectrum, time waveform, demodulation and phase) analysis was performed. The following standards was used:

- ISO 10816-3 “Mechanical vibration — Evaluation of machine vibration by measurements on non-rotating parts — Part 3: Industrial machines with nominal power above 15 kW and nominal speeds between 120 r/min and 15 000 r/min when measured in situ
- ISO 10816-7 “Mechanical vibration — Evaluation of machine vibration by measurements on non-rotating parts —Part 7:Rotodynamic pumps for industrial applications, including measurements of
- ISO 10816-8 “ Mechanical vibration — Evaluation of machine vibration by measurements on non-rotating parts — Part 8: Reciprocating compressor systems”
- ANSI/ASA S2.28-2009 “Guide for the Measurement and Evaluation of Broadband Vibration of Surface Ship Aux

SAMPLE